

Notice of Allowability

Application No.

09/682,489

Examiner

Ramy M Osman

Applicant(s)

LAMMING ET AL.

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/03/2005.
2. ☒ The allowed claim(s) is/are 1-3,5-8,10,11,13,14,19,22 and 25-35.
3. ☒ The drawings filed on 15 October 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

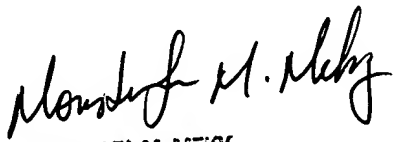
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 06/08/04 , 05/08/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


MOUSTAFA M. MEKY
PRIMARY EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas Zell (Reg. No. 37,481) on March 9, 2005.

The application has been amended as follows:

Claim 25: A method for processing an electronic document in accordance with a document service request, said method comprising:

responding, with an output device, to a request to establish a first wireless communication channel; the output device being adapted to respond to discovery requests and output representations of electronic documents;

responding, with a document server, to a request to establish a second wireless communication channel; the document server being adapted to render electronic documents into formats suitable for output devices;

bridging, with a mobile computing device, communications between (i) the output device over the first wireless communication channel and (ii) the document server over the second wireless communication channel;

wherein the mobile computing device in bridging communications with the output device and the document server further ~~comprising~~ comprises:

- (a) executing a discovery request over the first wireless communication channel to identify one or more output devices available over the first wireless communication channel;
- (b) receiving from the output device in response to the discovery request a list of available services that specifies a desired or preferred format in which to receive the electronic document;
- (c) specifying the document service request in response to user input that includes a first parameter identifying a location of the electronic document and a second parameter identifying a type of output device for performing the document service request;
- (d) sending the document service request to the document server for rendering the electronic document, which is identified by the first parameter, into a format suitable for the output device, which is identified by the second parameter;
- (e) transmitting to the output device over the first wireless communication channel the rendered electronic document it receives from the document server over the second wireless communication channel.

Claim 30: An apparatus for processing an electronic document in accordance with a document service request, said apparatus comprising:

a printer for responding to a request to establish a first wireless communication channel; the printer being adapted to respond to discovery requests and output hardcopy representations of electronic documents;

a document server for responding to a request to establish a second wireless communication channel; the document server being adapted to render electronic documents into formats suitable for printers;

a mobile computing device for bridging communications between (i) the printer over the first wireless communication channel and (ii) the document server over the second wireless communication channel;

wherein the mobile computing device further ~~comprising~~ comprises means for:

(a) executing a discovery request over the first wireless communication channel to identify one or more output devices available over the first wireless communication channel;

(b) receiving from the printer in response to the discovery request a list of available services that specifies a desired or preferred format in which to receive the electronic document;

(c) specifying the document service request in response to user input that includes a first parameter identifying a location of the electronic document and a second parameter identifying a type of printer for performing the document service request;

(d) sending the document service request to the document server for rendering the electronic document, which is identified by the first parameter, into a format suitable for the printer, which is identified by the second parameter;

(e) transmitting to the printer over the first wireless communication channel the rendered electronic document it receives from the document server over the second wireless communication channel.

Status of Claims

2. This action is responsive to the RCE filed on January 3, 2005. No claims were amended added or cancelled. Claims 1-3,5-8,10,11,13,14,19,22 and 25-35 are pending. Claims 1-3,5-8,10,11,13,14,19,22 and 25-35 are thus allowed.

Allowable Subject Matter

3. Claims 1-3,5-8,10,11,13,14,19,22 and 25-35 are allowed.

4. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or define neither singly or in combination the claimed invention of a mobile computing device bridging communications between an output device, like a printer, and a document server, which stores documents and renders them into a format suitable for the output device. The mobile computing device performs discovery of available output device that will be utilized for outputting a document received from the document server, where the document is formatted at the document server based on parameters of the available output device.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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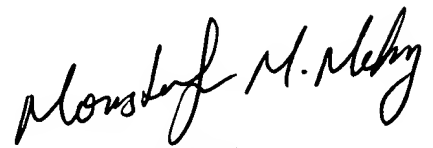
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M Osman whose telephone number is (571) 272-4008.

The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMO
March 10, 2005


MOUSTAFA M. MEKY
PRIMARY EXAMINER